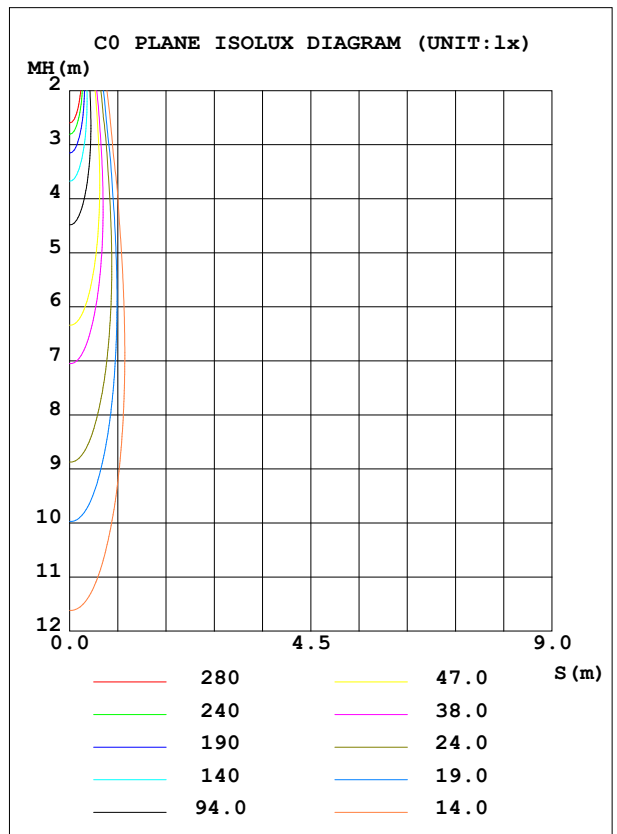
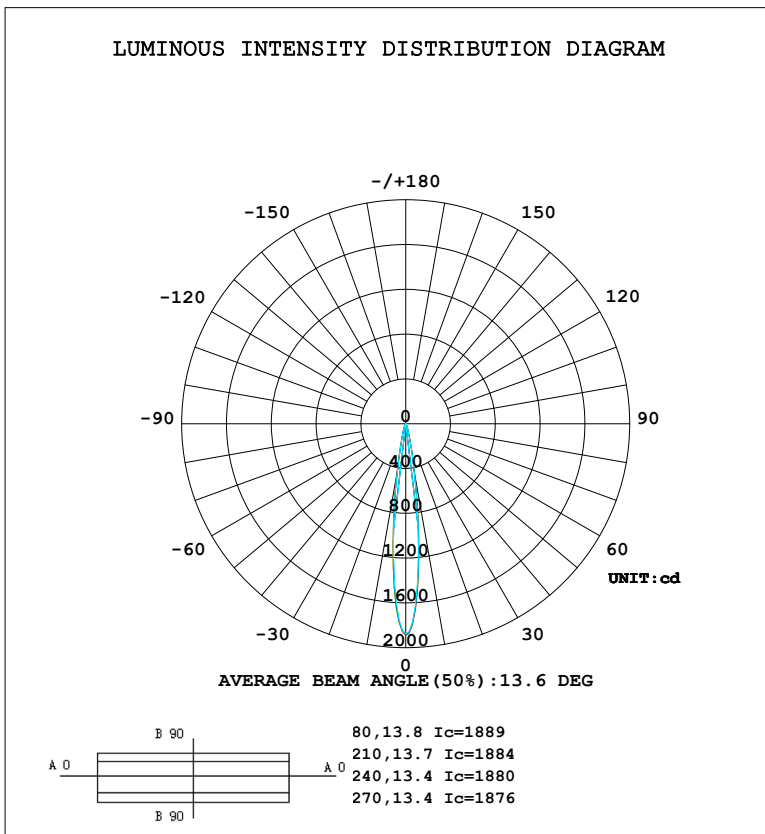


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.0909A P:2.1815W PF:0.9999 Freq:0Hz		
Lamp Flux:169.444x1 lm		
NAME: 82712	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	1889	S/MH (C0/180)	0.24
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	0.23
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	169.44	η UP, DN (C0-180)	0.0, 50.9
NOMINAL FLUX (lm)	169.444	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	--	η down (%)	100.0	CIBSE SHR MAX	0.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	475.5	484.7	451.7	491.1	472.7	420.2	443.6	448.1	0- 10	94.36	94.36	55.7,55.7
20	58.20	59.36	55.55	60.53	60.84	58.77	62.45	57.61	10- 20	44.83	139.2	82.1,82.1
30	15.47	16.45	17.54	18.54	17.90	17.07	15.10	14.49	20- 30	14.32	153.5	90.6,90.6
40	7.397	8.451	10.09	10.42	9.654	8.327	6.974	6.455	30- 40	7.193	160.7	94.8,94.8
50	3.852	3.934	3.983	4.160	4.260	4.228	4.036	3.752	40- 50	4.688	165.4	97.6,97.6
60	1.533	1.630	1.730	1.852	1.918	1.883	1.698	1.564	50- 60	2.403	167.8	99,99
70	0.6269	0.6714	0.7581	0.8179	0.8436	0.8153	0.7013	0.6297	60- 70	1.161	169.0	99.7,99.7
80	0.1065	0.1211	0.1646	0.1955	0.2087	0.1898	0.1432	0.1107	70- 80	0.4294	169.4	100,100
90	0.0030	0.0010	0.0020	0.0120	0.0161	0.0120	0.0000	0	80- 90	0.0633	169.4	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 163.38 lm

%lum = 96.4%

%lamp = 96.4%

Conical surface Flux(120deg): 167.79 lm

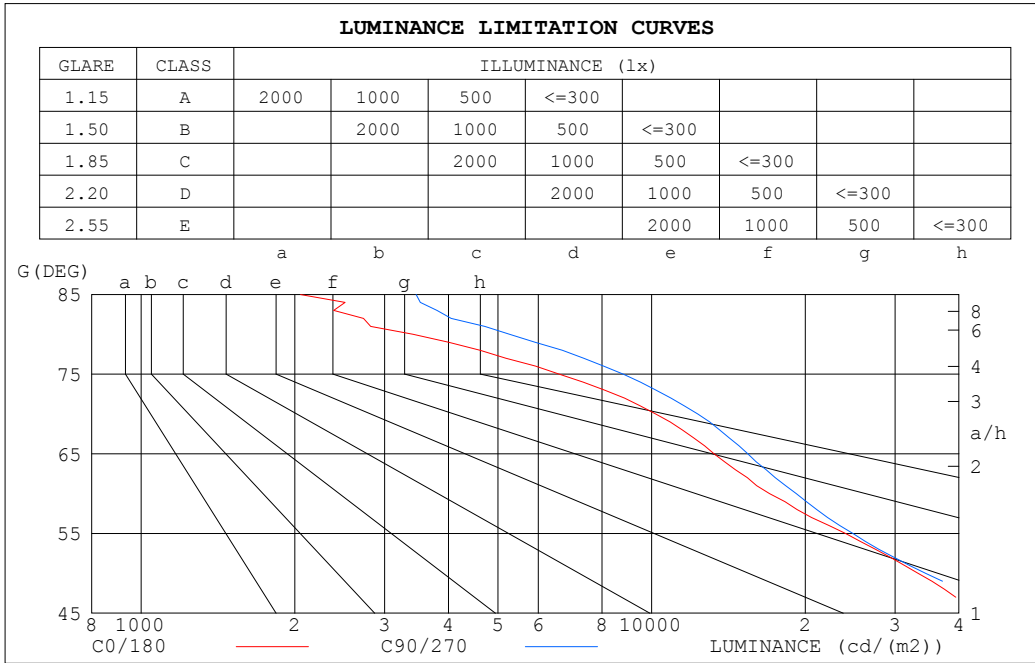
%lum = 99.0%

%lamp = 99.0%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



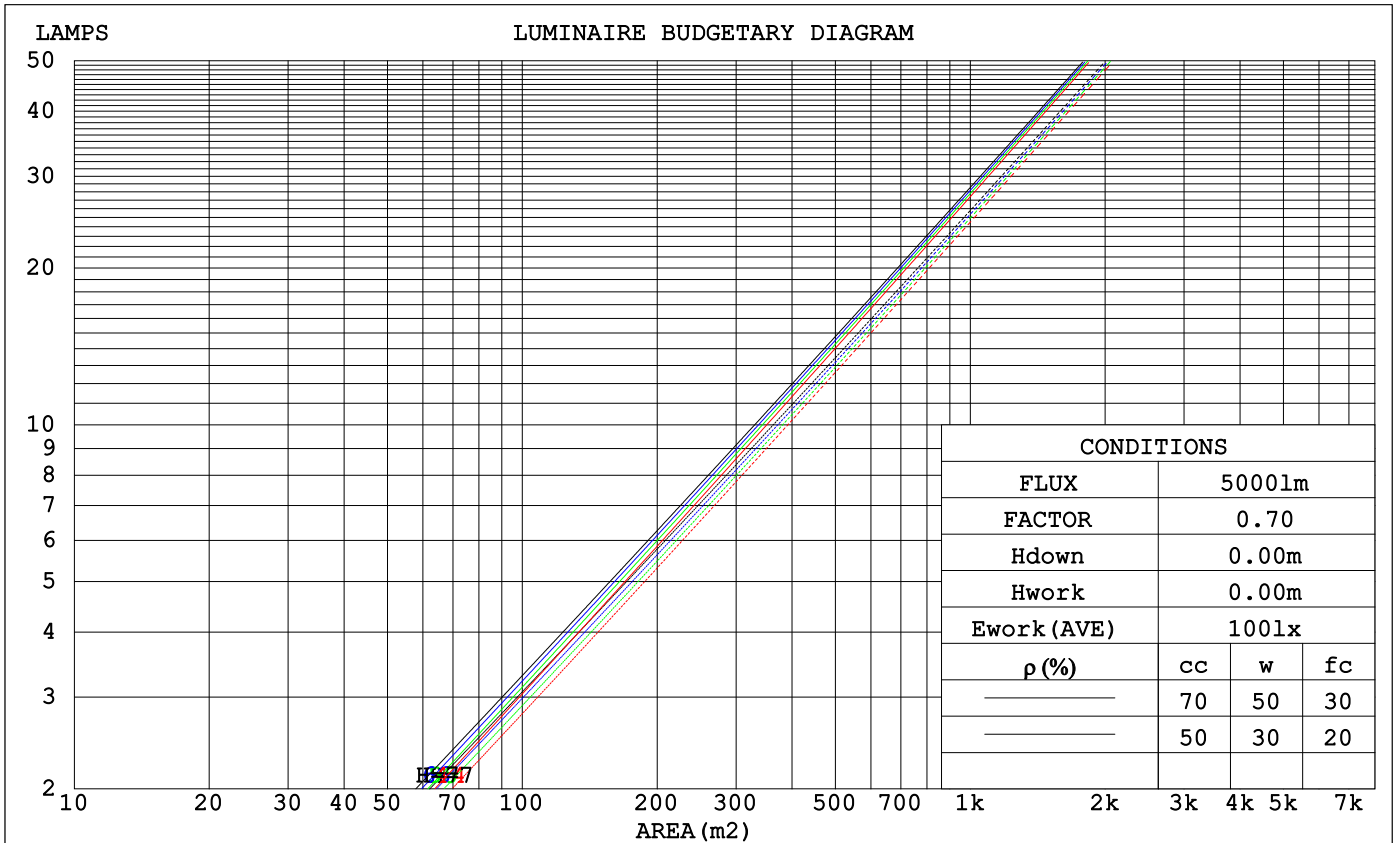
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2053	3459
80	3408	5267
75	6591	8799
70	10182	12315
65	13260	15436
60	17037	19221
55	23991	24804
50	33293	34429
45	43351	51612

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.02	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.07	1.04	1.02	1.03	1.01	.99	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.99	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.00	.97	.94	.99	.96	.93	.97	.95	.92	.96	.93	.91	.94	.92	.90	.89
5.0	.97	.93	.91	.96	.93	.90	.95	.92	.90	.93	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.90	.88	.93	.89	.87	.91	.89	.87	.90	.88	.86	.85
7.0	.92	.88	.86	.92	.88	.85	.91	.87	.85	.90	.87	.85	.89	.86	.84	.83
8.0	.90	.86	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.85	.83	.82
9.0	.88	.84	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.86	.83	.81	.80
10.0	.86	.83	.80	.86	.83	.80	.85	.82	.80	.85	.82	.80	.84	.82	.80	.79



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

WEC AND CCEC

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfC	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.131	.075	.024	.125	.071	.023	.112	.064	.021	.101	.058	.019	.090	.052	.017	
2.0	.121	.066	.020	.116	.064	.020	.106	.059	.018	.096	.054	.017	.088	.050	.016	
3.0	.112	.060	.018	.108	.058	.017	.099	.054	.016	.091	.050	.015	.084	.047	.014	
4.0	.104	.054	.016	.100	.053	.016	.093	.049	.015	.087	.047	.014	.081	.044	.013	
5.0	.097	.049	.014	.094	.048	.014	.088	.046	.013	.082	.043	.013	.077	.041	.012	
6.0	.091	.046	.013	.088	.045	.013	.083	.043	.012	.078	.041	.012	.074	.039	.012	
7.0	.086	.042	.012	.083	.041	.012	.079	.040	.011	.075	.038	.011	.071	.037	.011	
8.0	.081	.039	.011	.079	.039	.011	.075	.037	.011	.071	.036	.010	.068	.035	.010	
9.0	.077	.037	.010	.075	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.010	
10.0	.073	.035	.010	.071	.034	.010	.068	.033	.009	.065	.032	.009	.063	.032	.009	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfC	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.069	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.095	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.101	.075	.057	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.049	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.042	.074	.052	.037	.051	.036	.026	.030	.021	.016	.010	.007	.005	
9.0	.080	.054	.037	.069	.047	.032	.048	.033	.023	.028	.019	.014	.009	.006	.004	
10.0	.074	.049	.032	.064	.043	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.9	17.5	17.1	17.6	17.8	17.4	18.0	17.6	18.2	18.3
3H	17.1	17.7	17.3	17.9	18.0	17.7	18.2	17.9	18.4	18.6
4H	17.1	17.7	17.4	17.9	18.1	17.7	18.3	18.0	18.5	18.7
6H	17.1	17.6	17.4	17.8	18.1	17.7	18.2	18.0	18.5	18.7
8H	17.1	17.6	17.3	17.8	18.0	17.7	18.2	18.0	18.4	18.7
12H	17.0	17.5	17.3	17.8	18.0	17.6	18.1	17.9	18.4	18.6
4H 2H	17.0	17.5	17.2	17.7	17.9	17.5	18.0	17.7	18.2	18.4
3H	17.3	17.8	17.6	18.0	18.3	17.8	18.3	18.1	18.6	18.8
4H	17.3	17.8	17.7	18.1	18.4	17.9	18.3	18.2	18.6	18.9
6H	17.3	17.7	17.7	18.0	18.4	17.9	18.3	18.2	18.6	18.9
8H	17.3	17.6	17.6	18.0	18.3	17.8	18.2	18.2	18.6	18.9
12H	17.2	17.5	17.6	17.9	18.3	17.8	18.1	18.2	18.5	18.9
8H 4H	17.3	17.6	17.7	18.0	18.3	17.8	18.2	18.2	18.5	18.9
6H	17.2	17.5	17.6	17.9	18.3	17.8	18.1	18.2	18.5	18.9
8H	17.2	17.5	17.6	17.9	18.3	17.8	18.0	18.2	18.4	18.9
12H	17.1	17.4	17.6	17.8	18.3	17.7	17.9	18.2	18.4	18.9
12H 4H	17.2	17.6	17.6	17.9	18.3	17.8	18.1	18.2	18.5	18.8
6H	17.2	17.4	17.6	17.9	18.3	17.7	18.0	18.2	18.4	18.9
8H	17.1	17.4	17.6	17.8	18.3	17.7	17.9	18.2	18.4	18.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 1.9					+ 1.5 / - 2.2				
1.5H	+ 1.0 / - 1.3					+ 2.2 / - 1.8				
2.0H	+ 2.6 / - 2.3					+ 3.1 / - 2.2				

CIE Pub.117, 169.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -6.2)
 Area: 0.00018 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

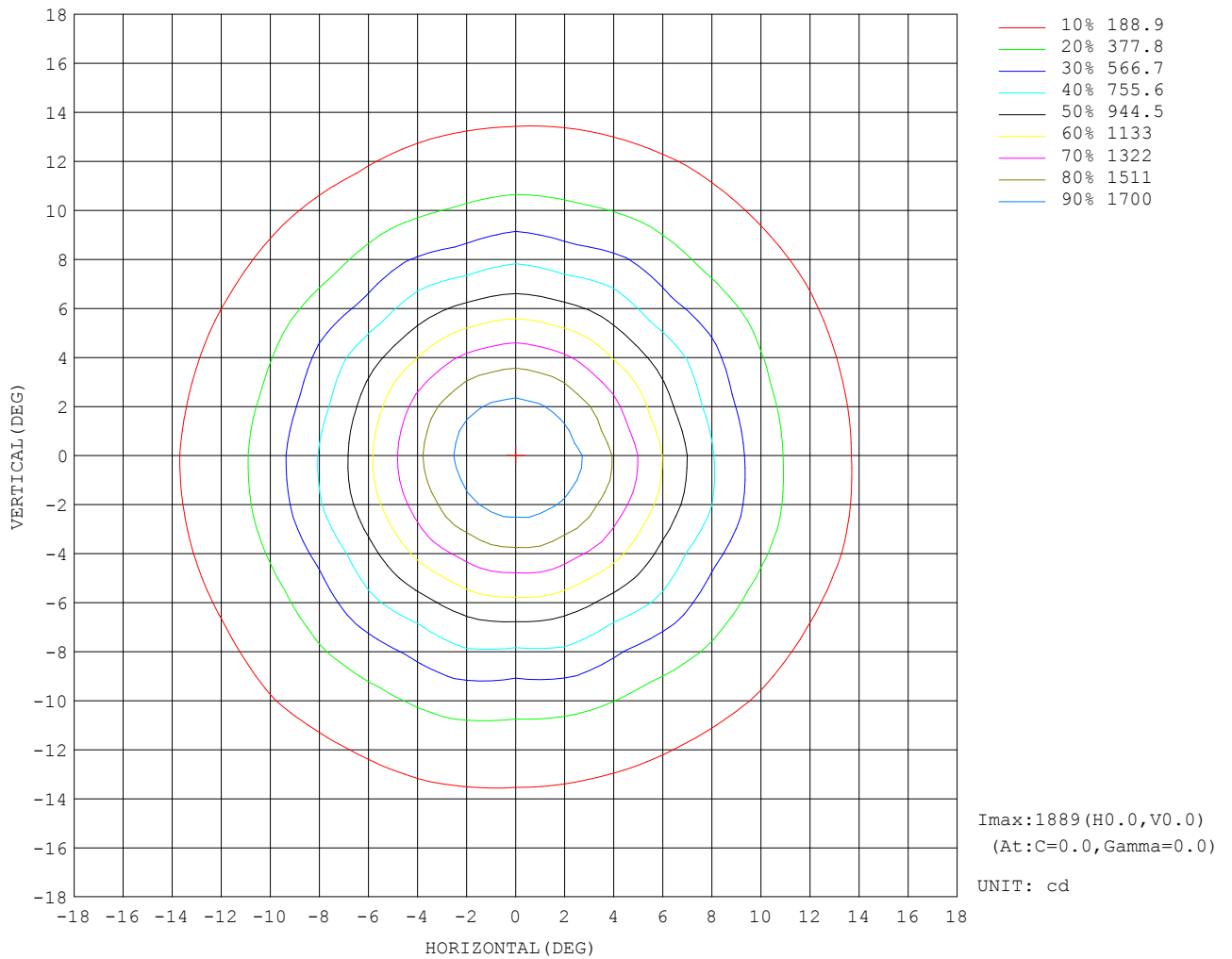
UTILIZATION FACTORS TABLE

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

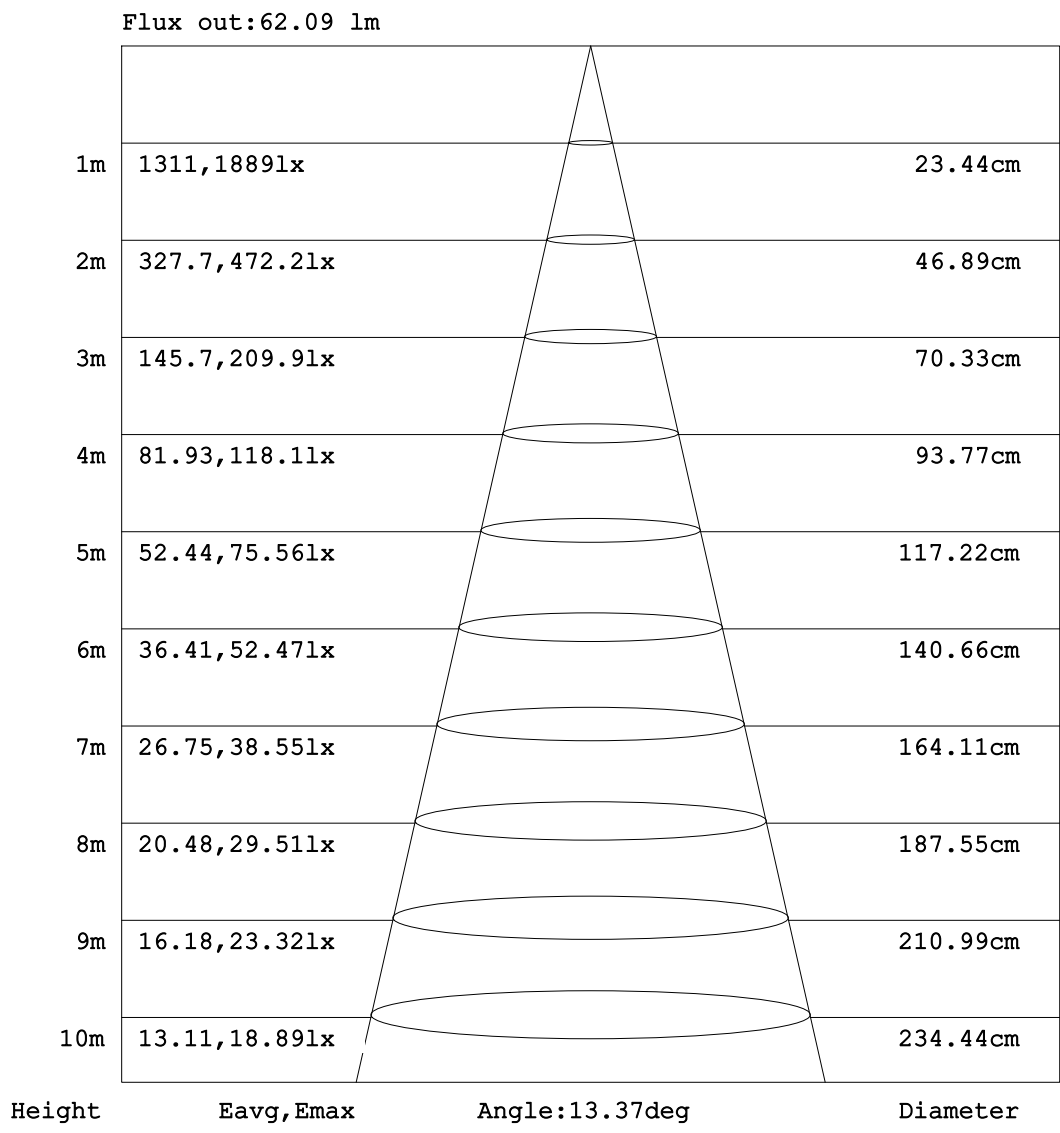
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2025-11-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

AAI Figure

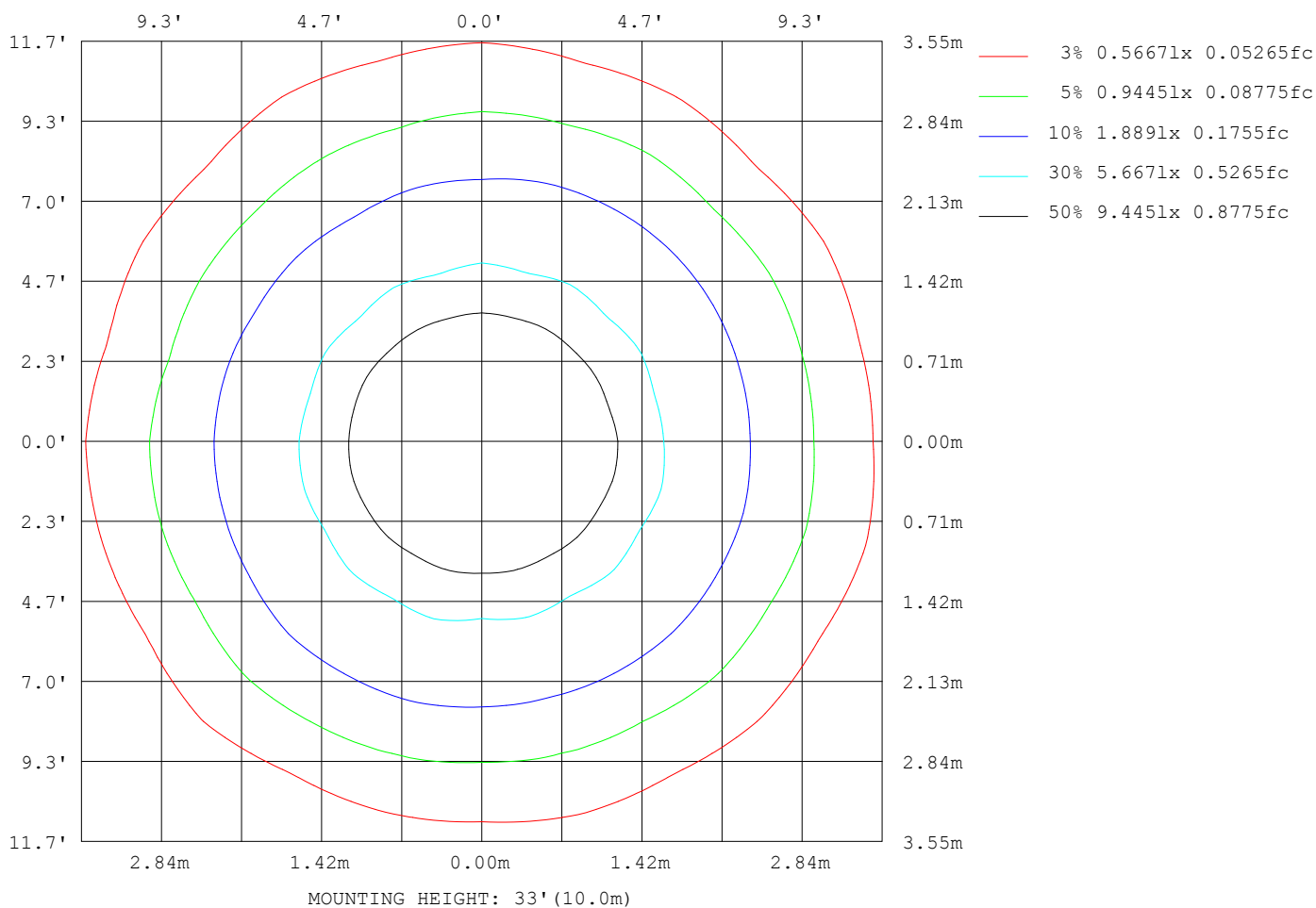


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2025-11-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:23.997V I:0.0909A P:2.1815W PF:0.9999 Freq:0Hz Lamp Flux:169.444x1 lm		
NAME: 82712	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

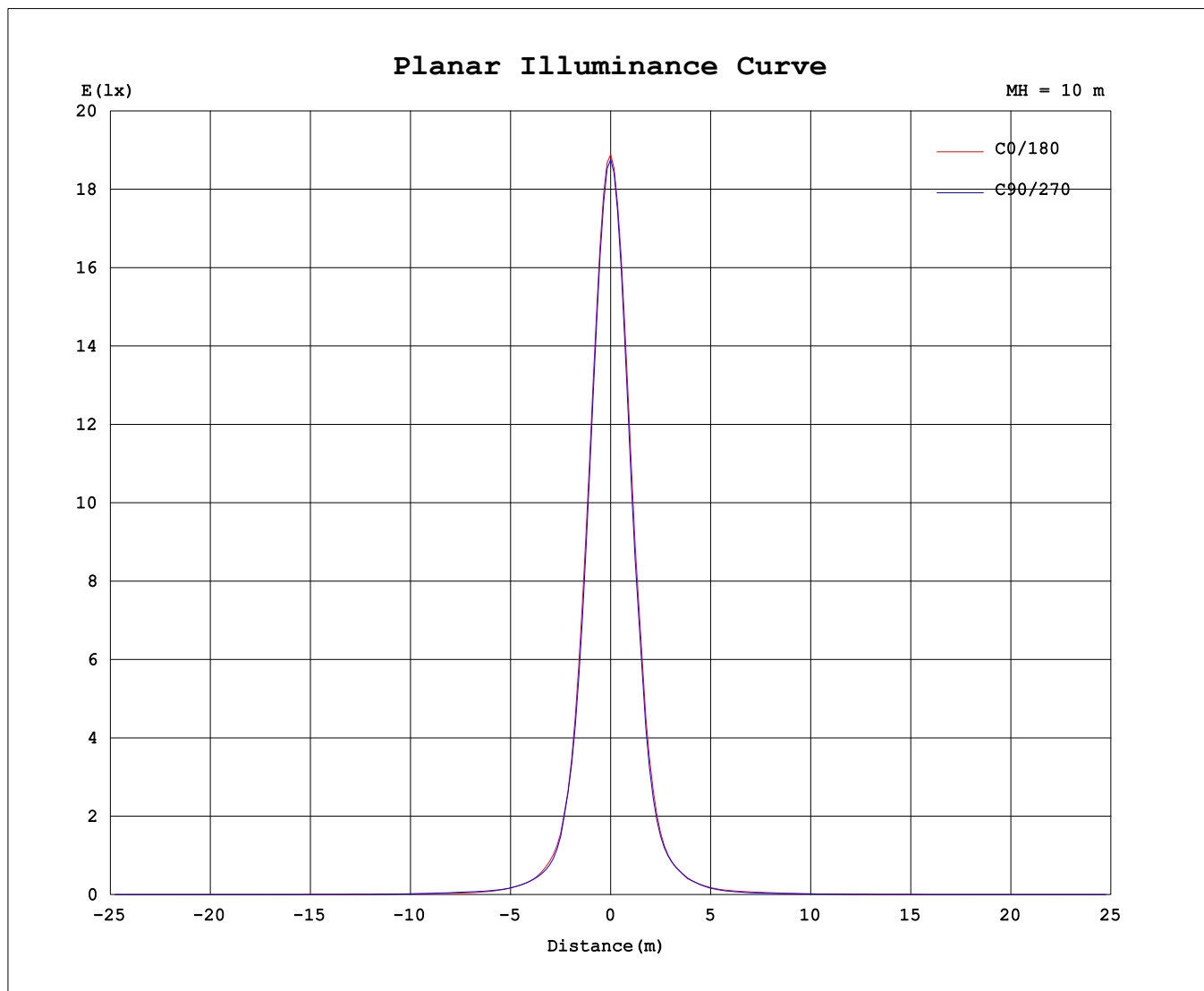
AvgL	cd/m2
L_0~180 (65) av	15184
L_0~180 (75) av	8468
L_0~180 (85) av	3261
L_90~270 (65) av	14968
L_90~270 (75) av	8372
L_90~270 (85) av	3167
L_45 (65) av	15163
L_45 (75) av	8363
L_45 (85) av	3294

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3°C
Operators:
Test Date:2025-11-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3°C
Operators:
Test Date:2025-11-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

